

What is claimed is:

1. An apparatus for producing a performance evaluation model, comprising:
  - a conversion rule storage unit that stores conversion rules,
  - a UML model analysis unit that inputs and analyzes a UML model, and
  - a conversion processing unit that produces a performance evaluation model by
- 5 converting the results of analysis by the UML model analysis unit in accordance with the conversion rules stored in the conversion rule storage unit.
  
2. An apparatus for producing a performance evaluation model, comprising:
  - a conversion rule editing unit that inputs conversion rules from a user,
  - a conversion rule storage unit that stores conversion rules input from the
- 5 converting the results of analysis by the UML model analysis unit in accordance with conversion rules stored in the conversion rule storage unit.
  
3. A method for producing a performance evaluation model, comprising the steps of:
  - defining a notation for assigning to hardware resources using expanded notation of
  - a UML model;
  - determining conversion rules for converting to a performance evaluation model
- 5 from a UML model according to that notation; and
- systematically producing a performance evaluation model from a UML model in

accordance with the conversion rules.

4. A method for producing a performance evaluation model, comprising the steps of:
  - setting a first message of a sequence diagram as a current message;
  - focusing on the current message of the sequence diagram;
  - investigating type and attribute of a class that defines a destination object;
5. investigating type and attribute of a class that defines a source object,
  - searching for conversion rules based on the types of classes that define the destination object and the source object;
  - converting and arranging the current message to the node of a performance evaluation tool in accordance with the searched conversion rules;
10. judging whether or not there is a message following the current message; and
  - using the next message, if present, as the current message and focusing control on the current message.
5. A method for producing a performance evaluation model according to claim 4, wherein the step of investigating type of class and attributes further comprises steps of:
  - focusing on the object;
  - focusing on the class that defines the object;
5. searching for a corresponding class from the object and searching for a resource correlation line connected to the class;
  - judging whether or not the resource correlation line exists;
  - storing the type and attribute of a resource class having a resource correlation as the type and attribute of the class if a resource correlation exists;

10 storing the type and attribute of the original class as the type and attribute of the class if a resource correlation line does not exist.

6. A recording medium recorded with a program for enabling a computer to function as:

a conversion rule storage unit that stores conversion rules;

a UML model analysis unit that inputs and analyzes a UML model; and

5 a conversion processing unit that produces a performance evaluation model by converting the results of analysis by the UML model analysis unit in accordance with conversion rules stored in the conversion rule storage unit.

7. A recording medium recorded with a program for enabling a computer to function as:

a conversion rule editing unit that inputs conversion rules from a user;

a conversion rule storage unit that stores conversion rules input from the

5 conversion rule editing unit;

a UML model analysis unit that inputs and analyzes a UML model; and

a conversion processing unit that produces a performance evaluation model by converting the results of analysis by the UML model analysis unit in accordance with conversion rules stored in the conversion rule storage unit.